Method and device for introducing liquid into an exhaust-gas purification system

Publication number: JP9511807T Publication date: 1997-11-25

Inventor: Applicant: Classification:

F01N3/08; B01D53/86; B01D53/94; F01N3/20; - international:

F01N3/24; F23J15/00; F23J15/02; F01N3/08; B01D53/86; B01D53/94; F01N3/20; F01N3/24; F23J15/00; F23J15/02; (IPC1-7): F01N3/08; B01D53/86; B01D53/94; F01N3/20; F01N3/24;

F23J15/02

- European:

B01D53/94F2D; B01D53/94Y; F01N3/20D; F23J15/00F

Application number: JP19950509815T 19950912

Priority number(s): WO1995DE01248 19950912; DE19944432576

19940913; DE19944432577 19940913

Also published as:

WO9608639 (A1) EP0839264 (A1)

US5884475 (A1) EP0839264 (A0)

EP0839264 (B1)

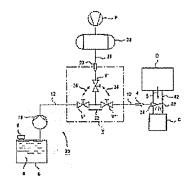
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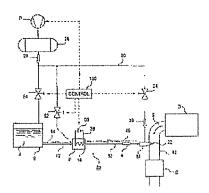
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Abstract not available for JP9511807T Abstract of corresponding document: US5884475 Nitrogen oxides emitted by an internalcombustion engine operated with excess air are normally converted by the method of selective catalytic reduction by bringing the nitrogen oxides, together with ammonia, into contact with a selective catalyst. Due to the dangers associated with the use of ammonia, in a motor vehicle ammonia should only be carried in the form of a substance which liberates ammonia, generally an aqueous urea solution. A method and a device for introducing liquid into an exhaust-gas purification system according to the invention avoids frost damage to sections of the system during shutdown times and permits operation of the system at temperatures below the freezing point of the reducing agent solution being used. The method and device include a (thermally insulated) reservoir for the reducing agent liquid and a liquid supply line which is connected thereto and terminates in an outlet opening for the liquid. The reservoir and the liquid supply line can be heated. Furthermore, a heater is provided for liquefying a starting volume which is small as compared with the volume of the reservoir. The liquid supply line may also have a back-flush valve to which a gas that is under

pressure can be applied. The supply line can

consequently be blown free.





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